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Date: May 12, 2003

*Please Deliver To:***Name:** Examiner Chat C. Do**Firm:** U.S. Patent and Trademark Office**Tel:** (703) 305-5655**Fax:** (703) 746-7239**From:** Thomas M. Fisher

Serial Number: 09/507,521

Docket: 15-CT-5271

**PAPERS TRANSMITTED:**

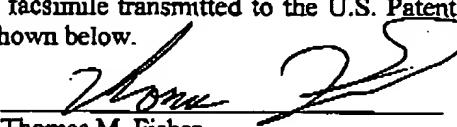
Amendment Transmittal (3 pgs.)

Amendment in response to Office Action dated October 3, 2002 and Notice of Non-Responsive Amendment dated February 12, 2003 (22 pgs.)

Submission of Marked Up Claims (3 pgs.)

*Total pages including cover page: 29**If all pages are not received, please contact Thomas Fisher at (314) 621-5070, ext. 7462***CERTIFICATE OF FACSIMILE TRANSMISSION**

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Date: May 12, 2003
  
 Thomas M. Fisher  
 Registration No. 47,564
**Applicant:** Mix Xie et al.**Serial No.:** 09/507,521**Filed:** February 18, 2000**Art Unit:** 2124**Examiner:** Do, Chat C.**Atty. Dkt. No.:** 15-CT-5271 (12553-191)**For:** METHOD AND APPARATUS FOR FAST NATURAL LOG(X) CALCULATION

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PATENT  
15-CT-5271

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Min Xie et al.

Art Unit: 2124

Serial No.: 09/507,521

Examiner: Do, Chat C.

Filed: February 18, 2000

For: METHOD AND APPARATUS  
FOR FAST NATURAL LOG(X)  
CALCULATION

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

*Official**5/12/03*

## TRANSMITTAL

1. Transmitted herewith is:

**Amendment in response to Office Action dated October 3, 2002 and Notice of Non-Responsive Amendment dated February 12, 2003 (22 pgs.); Submission of Marked Up Claims (3 pgs.)**

## STATUS

2. Applicant

Claims small entity status.  
 is other than a small entity.

## CERTIFICATE OF MAILING/TRANSMISSION

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## MAILING

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Date: May 12, 2003

## FACSIMILE

Transmitted by facsimile to the Patent and Trademark Office

  
Thomas M. Fisher  
Reg. No. 47,564

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15-CT-5271 Ext 7  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Min Xie et al.

Art Unit: 2124

Serial No.: 09/507,521

Examiner: Do, Chat C.

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For: METHOD AND APPARATUS  
FOR FAST NATURAL LOG(X)  
CALCULATION

AMENDMENT

Hon. Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated October 3, 2002, and the Notice of Non-Responsive Amendment dated February 12, 2003, Applicants respectfully request consideration of the following amendment:

IN THE CLAIMS

Please cancel claims 1, 4, 12, 18 and 26.

BT  
2. (once amended) A method in accordance with Claim 31 wherein the particular number  $x$  has a binary exponent  $e$  in addition to the binary mantissa  $m$ ;

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